EXHIBIT 49

AMENDED APPENDIX H.EC - Edge-Core Usage of Disputed CLI Commands

Disputed Cisco Command	Edge-Core Command Syntax	Edge-Core Manual Bates Number
aaa accounting	aaa accounting commands level {default | method-name} start-stop group {tacacs+ | server-group}	EC004411
aaa accounting dot1x	aaa accounting dot1x {default | method-name} start-stop group {radius | tacacs+ | server-group}	EC004411
aaa authentication login	authentication login {[local] [radius] [tacacs]}	EC004411
aaa group server radius	[no] aaa group server {radius | tacacs+} group-name	EC004411
aaa group server tacacs+	[no] aaa group server {radius | tacacs+} group-name	EC004411
address-family	address-family {ipv4 | ipv6}	EC000499
aggregate-address	[no] aggregate-address ip-address netmask [as-set] [summary only]	EC004411
area default-cost	area area-id default-cost cost	EC004411
area default-cost (OSPFv3)	area area-id default-cost cost	EC004411
area nssa	[no] area area-id nssa [translator-role [candidate | never | always]] | [no-redistribution] | [no-summary] | [default-information-originate [metric metric-value | metric-type type-value]]	EC004411
area nssa (OSPFv3)	[no] area area-id nssa [translator-role [candidate | never | always]] | [no-redistribution] | [no-summary] | [default-information-originate [metric metric-value | metric-type type-value]]	EC004411
area nssa default-information-originate	[no] area area-id nssa [translator-role [candidate | never | always]] | [no-redistribution] | [no-summary] | [default-information-originate [metric metric-value | metric-type type-value]]	EC004411
area nssa default-information-originate (OSPFv3)	[no] area area-id nssa [translator-role [candidate | never | always]] | [no-redistribution] | [no-summary] | [default-information-originate [metric metric-value | metric-type type-value]]	EC004411
area nssa no-summary	[no] area area-id nssa [translator-role [candidate | never | always]] | [no-redistribution] | [no-summary] | [default-information-originate [metric metric-value | metric-type type-value]]	EC004411
area range	[no] area area-id range ipv6-prefix/prefix-length {advertise | not-advertise}	EC004411
area range (OSPFv3)	[no] area area-id range ipv6-prefix/prefix-length {advertise | not-advertise}	EC004411
area stub	[no] area area-id stub [no-summary]	EC004411
area stub (OSPFv3)	[no] area area-id stub [no-summary]	EC004411
arp timeout	arp timeout seconds	EC004411
bgp log-neighbor-changes	bgp log-neighbor-changes	EC004411
boot system	boot system [unit:] {boot-rom | config | opcode}: filename	EC004411
clear arp-cache	clear arp-cache	EC004411
clear counters	clear counters interface	EC004411
clear ip bgp	clear ip bgp { * | as-number | external | peer-group group-name | neighbor-address} [in [prefix-list] | out | soft [in | out]]	EC004411
clear ip ospf neighbor	clear ip ospf neighbor [neighbor-id]	EC000499
clear ipv6 neighbors	clear ipv6 neighbors	EC004411
clear mac-address-table dynamic	clear mac-address-table dynamic	EC004411
clock set	clock set hh:mm:ss	EC000001
clock timezone	clock timezone name hour hours minute minutes {before-utc | after-utc}	EC004411
default-information originate (OSPF)	[no] default-information originate	EC004411
default-information originate (OSPFv3)	[no] default-information originate	EC004411
default-metric (OSPF)	default-metric metric-value	EC004411
default-metric (OSPFv3)	default-metric metric-value	EC004411
distance bgp	distance bgp ebgp-distance ibgp-distance local-distance	EC004411
dot1x pae authenticator	dot1x pae {supplicant | authenticator}	EC000499
dot1x port-control	dot1x port-control {auto | force-authorized | force-unauthorized}	EC004411
dot1x reauthentication	[no] dot1x re-authentication	EC004411
dot1x system-auth-control	[no] dot1x system-auth-control	EC004411
dot1x timeout quiet-period	dot1x timeout quiet-period seconds	EC004411
dot1x timeout reauth-period	dot1x timeout re-authperiod seconds	EC004411
dot1x timeout tx-period	dot1x timeout tx-period seconds	EC004411

interface ethernet	[no] interface interface
	 interface
	  ethernet unit/port-list
	   unit - Unit identifier. (Range: 1-8)
	   port-list - Physical port number or list of port numbers.
	   Separate nonconsecutive port numbers with a comma and no
	   spaces; or use a hyphen to designate a range of port numbers.
	   (Range: 1-28/52)
	   port-channel channel-id (Range: 1-16)
		EC004411

interface loopback	interface loopback id	EC000001

interface port-channel	[no] interface interface
	 interface
	  ethernet unit/port-list
	   unit - Unit identifier. (Range: 1-8)
	   port-list - Physical port number or list of port numbers.
	   Separate nonconsecutive port numbers with a comma and no
	   spaces; or use a hyphen to designate a range of port numbers.
	   (Range: 1-28/52)
	   port-channel channel-id (Range: 1-16)
		EC004411

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interface vlan	[no] interface interface
	  interface
	    ethernet unit/port-list
	      unit - Unit identifier. (Range: 1-8)
	      port-list - Physical port number or list of port numbers.
	      Separate nonconsecutive port numbers with a comma and no
	      spaces; or use a hyphen to designate a range of port numbers.
	      (Range: 1-28/52)
	      port-channel channel-id (Range: 1-16)
		EC004411

ip access-group	ip access-group acl-name in [time-range time-range-name] [counter]	EC004411
ip access-list	ip access-list name	EC000001
ip address	ip address {ip-address netmask [secondary] [default-gateway ip-address] | bootp | dhcp}	EC004411
ip dhcp snooping	[no] ip dhcp snooping	EC004411
ip dhcp snooping information option	ip dhcp snooping information option [encode no-subtype] [remote-id {ip-address [encode {ascii | hex}] | mac-address [encode {ascii | hex}] | string string}]	EC004411
ip dhcp snooping vlan	no] ip dhcp snooping vlan vlan-id	EC004411
ip domain lookup	[no] ip domain-list name	EC004411
ip domain-name	ip domain-name name	EC004411
ip helper-address	[no] ip helper-address ip-address	EC004411
ip host	[no] ip host name address	EC004411
ip igmp snooping	[no] ip igmp snooping [vlan vlan-id]	EC004411
ip igmp snooping querier	[no] ip igmp snooping querier	EC004411
ip igmp snooping vlan immediate-leave	ip igmp snooping vlan vlan-id immediate-leave [by-host-ip]	EC004411
ip igmp snooping vlan mrouter	[no] ip igmp snooping vlan vlan-id mrouter interface	EC004411
ip igmp snooping vlan static	ip igmp snooping vlan vlan-id query-resp-intvl interval	EC004411
ip name-server	[no] ip name-server server-address1 [server-address2 ...server-address6]	EC004411
ip ospf authentication	ip ospf [ip-address] authentication [message-digest | null]	EC004411
ip ospf cost	ip ospf [ip-address] cost cost	EC004411
ip ospf dead-interval	ip ospf [ip-address] dead-interval seconds	EC004411
ip ospf hello-interval	ip ospf [ip-address] hello-interval seconds	EC004411
ip ospf network	ip ospf network {broadcast | point-to-point}	EC000499
ip ospf priority	ip ospf [ip-address] priority priority	EC004411
ip ospf retransmit-interval	ip ospf [ip-address] retransmit-interval seconds	EC004411
ip ospf transmit-delay	ip ospf [ip-address] transmit-delay seconds	EC004411
ip route	ip route destination-ip netmask next-hop [distance]	EC004411
ip routing	ip routing	EC004411
ipv6 access-group	ipv6 access-group acl-name in [time-range time-range-name] [counter]	EC004411
ipv6 access-list	ipv6 access-list name	EC000001
ipv6 address	[no] ipv6 address ipv6-address[/prefix-length]	EC004411
ipv6 dhcp relay destination	[no] ipv6 dhcp relay destination {ipv6-address | multicast {all | vlan vlan-id}}	EC004411
ipv6 enable	[no] ipv6 enable	EC004411
ipv6 host	[no] ipv6 host name ipv6-address	EC004411
ipv6 nd managed-config-flag	[no] ipv6 nd managed-config-flag	EC004411
ipv6 nd ns-interval	ipv6 nd ns-interval milliseconds	EC004411
ipv6 nd other-config-flag	[no] ipv6 nd other-config-flag	EC004411
ipv6 nd prefix	ipv6 nd prefix ipv6-address/prefix-length {default | [valid-lifetime preferred-lifetime [no-autoconfig | off-link]]}	EC004411
ipv6 nd ra interval	ipv6 nd ra interval minimum-interval [maximum-interval]	EC004411
ipv6 nd ra lifetime	ipv6 nd ra lifetime lifetime	EC004411
ipv6 nd reachable-time	ipv6 nd reachable-time milliseconds	EC004411
ipv6 nd router-preference	ipv6 nd router-preference {low | medium | high}	EC000499
ipv6 ospf area	ipv6 ospf area 0-4294967295	EC000499
ipv6 ospf cost	ipv6 ospf cost cost [instance-id instance-id]	EC004411
ipv6 ospf dead-interval	ipv6 ospf dead-interval seconds [instance-id instance-id]	EC004411
ipv6 ospf hello-interval	ipv6 ospf hello-interval seconds [instance-id instance-id]	EC004411
ipv6 ospf network	ipv6 ospf network {broadcast | point-to-point}	EC000499
ipv6 ospf priority	ipv6 ospf priority priority [instance-id instance-id]	EC004411
ipv6 ospf retransmit-interval	ipv6 ospf retransmit-interval seconds [instance-id instance-id]	EC004411
ipv6 ospf transmit-delay	ipv6 ospf transmit-delay seconds [instance-id instance-id]	EC004411
ipv6 route	[no] ipv6 route destination-ipv6-address/prefix-length {gateway-address [distance] | link-local-address%zone-id [distance]}	EC004411
ipv6 router ospf	[no] router ipv6 ospf [tag process-name]	EC004411
ipv6 unicast-routing	ipv6 unicast-routing	EC000499
lacp port-priority	lacp {actor | partner} port-priority priority	EC004411
lacp system-priority	lacp {actor | partner} system-priority priority	EC004411
lldp receive	lldp receive	EC000001
lldp transmit	lldp transmit	EC000001
log-adjacency-changes	log-adjacency-changes [detail]	EC000499
logging host	logging host host-ip-address [port udp-port]	EC004411
mac access-group	mac access-group acl-name in [time-range time-range-name] [counter]	EC004411
mac-address-table aging-time	mac-address-table aging-time seconds	EC004411
mac-address-table static	mac-address-table static mac-address interface interface vlan vlan-id [action]	EC004411
maximum-paths	maximum-paths path-count	EC004411

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maximum-paths (OSPFv3)	maximum-paths path-count	EC004411
neighbor activate	[no] neighbor {ip-address | group-name} activate	EC004411
neighbor default-originate	neighbor {ip-address | group-name} default-originate [route-map map-name]	EC004411
neighbor description	neighbor {ip-address | group-name} description description	EC004411
neighbor next-hop-self	[no] neighbor {ip-address | group-name} next-hop-self	EC004411
neighbor password	neighbor {ip-address | group-name} password	EC004411
neighbor remote-as	neighbor {ip-address | group-name} remote-as as-number	EC004411
neighbor route-map	neighbor {ip-address | group-name} route-map map-name {in | out}	EC004411
neighbor send-community	[no] neighbor {ip-address | group-name} send-community [both | extended | standard]	EC004411
neighbor shutdown	[no] neighbor {ip-address | group-name} shutdown	EC004411
neighbor timers	[no] neighbor {ip-address | group-name} timers keepalive-time hold-time	EC004411
neighbor update-source	[no] neighbor {ip-address | group-name} update-source interface vlan vlan-id	EC004411
network area	[no] network ip-address netmask area area-id	EC004411
no snmp-server	[no] snmp-server	EC004411
ntp authenticate	[no] ntp authenticate	EC004411
ntp authentication-key	ntp authentication-key number md5 key	EC004411
ntp server	ntp server ip-address [key key-number]	EC004411
passive-interface	[no] passive-interface vlan vlan-id [no] passive-interface vlan vlan-id [ip-address] [no] passive-interface vlan vlan-id [ipv6-address]	EC004411
passive-interface (OSPFv3)	[no] passive-interface vlan vlan-id [no] passive-interface vlan vlan-id [ip-address] [no] passive-interface vlan vlan-id [ipv6-address]	EC004411
passive-interface default	passive-interface default	EC000499
port-channel load-balance	port channel load-balance {dst-ip | dst-mac | src-dst-ip | src-dst-mac | src-ip | src mac}	EC004411
port-channel min-links	port-channel min-links 1-8	EC000001
priority-flow-control mode	priority-flow-control mode {on | off}	EC000001
radius-server host	[no] radius-server index host host-ip-address [acct-port acct-port] [authport auth-port] [key key] [retransmit retransmit] [timeout timeout]	EC004411
radius-server key	radius-server key key-string	EC004411
radius-server retransmit	radius-server retransmit number-of-retries	EC004411
radius-server timeout	radius-server timeout number-of-seconds	EC004411
route-map	[no] route-map map-name {deny | permit} sequence-number	EC004411
router bgp	[no] router bgp as-number	EC004411
router ospf	[no] router ospf [process-id]	EC004411
router-id	router-id ip-address	EC004411
router-id (OSPFv3)	router-id ip-address	EC004411
show arp	show arp	EC004411
show clock	show clock	EC000001
show dot1q-tunnel	show dot1q-tunnel [interface interface [service svid] | service [svid]]	EC004411

show dot1x	show dot1x [statistics] [interface interface]
	    statistics - Displays dot1x status for each port.
	    interface
	        ethernet unit/port
	            unit - Unit identifier. (Range: 1-8)
	            port - Port number. (Range: 1-28/52)
		EC004411

show dot1x statistics	show dot1x [statistics] [interface interface]
	    statistics - Displays dot1x status for each port.
	    interface
	        ethernet unit/port
	            unit - Unit identifier. (Range: 1-8)
	            port - Port number. (Range: 1-28/52)
		EC004411

show flowcontrol **	show flowcontrol [slot/port]	EC000499
show hosts	show hosts	EC004411
show interfaces status	show interfaces status [interface]	EC004411
show interfaces switchport	show interfaces switchport [interface]	EC004411
show interfaces transceiver	show interfaces transceiver [interface]	EC004411
show ip access-lists	show ip access-lists [accesslistnumber | name]	EC000001
show ip bgp	show ip bgp ip-address [netmask [longer-prefixes]]	EC004411
show ip bgp community	show ip bgp community [{[AA:NN] [internet] [local-as] [no-advertise] [no-export]} [exact-match]]	EC004411
show ip bgp neighbors	show ip bgp neighbors [ip-address [advertised-routes | received prefix-filter | received-routes | routes]]	EC004411
show ip bgp summary	show ip bgp summary	EC004411
show ip dhcp snooping	show ip dhcp snooping	EC004411
show ip helper-address	[no] ip helper-address ip-address show ip helper	EC004411
show ip igmp snooping	show ip igmp snooping [vlan vlan-id]	EC004411
show ip igmp snooping mrouter	show ip igmp snooping mrouter [vlan vlan-id]	EC004411
show ip interface	show ip interface	EC004411
show ip interface brief	show ip interface brief	EC000499
show ip ospf	show ip ospf [process-id]	EC004411
show ip ospf database database-summary	show ip ospf database database-summary	EC000499
show ip ospf interface	show ip ospf interface [vlan vlan-id]	EC004411
show ip ospf neighbor	show ip ospf [process-id] neighbor	EC004411

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show ip route	show ip route [bgp | connected | database | ospf | rip | static | summary]	EC004411
show ip route summary	show ip route summary	EC004411
show ipv6 access-list	show ipv6 access-list {standard | extended} [acl-name]	EC004411
show ipv6 interface	show ipv6 interface [brief [vlan vlan-id [ipv6-prefix/prefix length]]]	EC004411
show ipv6 neighbors	show ipv6 neighbors [vlan vlan-id | ipv6-address]	EC004411
show ipv6 ospf	show ipv6 ospf	EC004411
show ipv6 ospf interface	show ipv6 ospf interface [vlan vlan-id]	EC004411
show ipv6 ospf neighbor	show ipv6 ospf [tag process-id] neighbor	EC004411
show ipv6 route	show ipv6 route [ipv6-address[/prefix-length] database | interface [vlan vlan-id] | local | ospf | static]	EC004411
show ipv6 route summary	show ipv6 route [{ipv6-address [protocol] | {{ipv6-prefix/ipv6-prefix-length | slot/ port | vlan 1-4093} [protocol] | protocol | summary} [all] | all}]	EC000499
show lacp counters	show lacp [port-channel] {counters | internal | neighbors | sys-id}	EC004411
show lldp	show lldp	EC000001
show mac access-lists	show mac access-list [acl-name]	EC004411
show mac-address-table	show mac-address-table [address mac-address [mask]] [interface interface] [vlan vlan-id] [sort {address | vlan | interface}]	EC004411
show mac-address-table aging time	show mac-address-table aging-time	EC004411
show mac-address-table count	show mac-address-table count [interface interface]	EC004411
show monitor session	show monitor session session-id	EC000001
show policy-map interface	show policy-map interface interface input	EC004411
show port-security	show port security [interface interface]	EC004411
show port-security interface	show port security [interface interface]	EC004411
show privilege	show privilege [command]	EC004411
show qos maps	show qos map cos-dscp interface interface	EC004411
show reload	show reload	EC004411
show snmp	show snmp	EC004411
show snmp engineID	show snmp engine-id	EC004411
show snmp group	show snmp group	EC004411
show snmp source-interface	show snmp source-interface	EC000001
show snmp user	show snmp user	EC004411
show snmp view	show snmp view	EC004411
show spanning-tree	show spanning-tree [interface | mst instance-id | brief | stp-enabled-only]	EC004411
show spanning-tree mst configuration	show spanning-tree mst configuration	EC004411
show storm-control	show storm-control [all | slot/port]	EC000001
show users	show users	EC004411
show version	show version	EC004411
show vlan	show vlan [id vlan-id | name vlan-name]	EC004411
show vlan internal usage	show vlan internal usage	EC000001
snmp-server community	snmp-server community string [ro | rw]	EC004411
snmp-server contact	snmp-server contact string	EC004411
snmp-server enable traps	[no] snmp-server enable traps [authentication | link-up-down | ethernet cfm | mac-notification [interval seconds]]	EC004411
snmp-server engineID local	snmp-server engine-id {local | remote {ip-address}} engineid-string	EC004411
snmp-server engineID remote	snmp-server engine-id {local | remote {ip-address}} engineid-string	EC004411
snmp-server group	snmp-server group groupname {v1 | v2c | v3 {auth | noauth | priv}} [read readview] [write writeview] [notify notifyview]	EC004411
snmp-server host	snmp-server host host-addr [inform [retry retries | timeout seconds]] community-string [version {1 | 2c | 3 {auth | noauth | priv} [udp-port port]}]	EC004411
snmp-server location	snmp-server location text	EC004411
snmp-server user	snmp-server user username groupname {v1 | v2c | v3 [encrypted] [auth {md5 | sha} auth-password [priv des56 priv-password]]	EC004411
snmp-server view	snmp-server view view-name oid-tree {included | excluded}	EC004411
spanning-tree bpdufilter	[no] spanning-tree bpdu-filter	EC004411
spanning-tree bpduguard	spanning-tree bpdu-guard [auto-recovery [interval interval]]	EC004411
spanning-tree cost	spanning-tree cost cost	EC004411
spanning-tree guard	spanning-tree guard {none | root | loop}	EC000001
spanning-tree link-type	spanning-tree link-type {auto | point-to-point | shared}	EC004411
spanning-tree mode	spanning-tree mode {stp | rstp | mstp}	EC004411
spanning-tree mst configuration	spanning-tree mst configuration	EC004411
spanning-tree port-priority	spanning-tree port-priority	EC004411
switchport mode	switchport mode {access | hybrid | trunk}	EC004411
tacacs-server host	tacacs-server index host host-ip-address [key key] [port port-number] [retransmit retransmit] [timeout timeout]	EC004411
tacacs-server key	tacacs-server key key-string	EC004411
tacacs-server timeout	tacacs-server timeout number-of-seconds	EC004411
terminal length	terminal {escape-character {ASCII-number | character} | history [size size] | length length | terminal-type {ansi-bbs | vt-100 | vt-102} | width width}	EC004411
timers bgp	timers bgp keepalive-time hold-time	EC004411
vlan internal allocation policy	vlan internal allocation {base vlan-id | policy ascending | policy decending}	EC000499

** Based on Exhibit Copying-2 to the Almeroth Opening Report, this command abstraction is not used by Cisco, but it is what Cisco and Prof. Almeroth accuses Arista EOS of using.

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Total of 224 command abstractions listed above.